INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06643

A. CLASSIFICATION OF SUBJECT MATTER IPC: G01V 1/28(2006.01),1/34(2006.01),1/36(2006.01)					
USPC: 367/25,36,37,38,43,50,51,52,68,72 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 367/25,36,37,38,43,50,51,52,68,72					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
A	US 6,480,118 B1 (RAO) 12 November 2002 (12.11	.2002), all	1-20		
A	US 6,473,696 B1 (ONYIA, et al) 29 October 2002	(29.10.2002), all	1-20		
A	US 4,802,147 A (MOECKEL) 31 January 1989 (2	1.01.1989), all	1-20		
Α	US 4,802,146 A (MOECKEL) 31 January 1989 (21.01.1989), all		1-20		
A	US 6,026,913 A (MANDAL, et al) 22 February 2000 (22.02.2000), all		1-20		
A	US 2,596,463 (BARTHELMES) 13 May 1952 (12.05.1952), all		1-20		
A	US 5,083,297 A (OSTRANDER) A 21 January 1992 (21.01.1992), all		1-20		
Purther	documents are listed in the continuation of Box C.	See patent family annex.			
S	pecial categories of cited documents:	"T" later document published after the inte			
	date and not in conflict with the application but cited to understand document defining the general state of the art which is not considered to be the principle or theory underlying the invention of particular relevance				
"B" earlier ap date	plication or patent published on or after the international filing	"X" document of particular relevance; the considered novel or cannot be considered step when the document is taken alone	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	considered to involve an inventive step combined with one or more other such	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"O" document	referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent i			
	document published prior to the international filing date but later than thepriority date claimed				
Date of the ac	ctual completion of the international search	Date of mailing of the international searce	h report		
	(11.04.2006)	16 MAY 2006			
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Com	unissioner for Patents	Scott Hughes			
	. Box 1450 randria, Virginia 22313-1450	Telephone No. 571-272-6983			
acsimile No. (571) 273-3201					

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International application No. PCT/US05/06643

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
Α	US 4,232,378 A (ADAMS, et al) 4 November 1980 (04.11.1980), all	1-20
A	US 4,713,775 A (SCOTT, et al) 15 December 1987 (15.12.1987), all	1-20
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	International application No.	
INTERNATIONAL SEARCH REPORT	PCT/US05/06643	
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Continuation of B. FIELDS SEARCHED Item 3:		
GeoRef: refractor, refraction, drilling, hazard, karsts, semblance, filtering		
EAST: refactor, refraction, seismic, drilling, filter, (sembalnce or coherence), static	CS CS	